

PROGRAM CODE

```
#include<stdio.h>
#include<stdlib.h>
#define MAX 100

void seq()
{
    int fileblocks[MAX];
    for(int i=0;i<MAX;i++)    //initialise all index = 0
        fileblocks[i]=0;

    char fname[10];
    int startB,flen,flag,ch;

    new:
    flag=0;

    printf("[FileName] >> ");
    scanf("%s",fname);
    printf("[Starting Block] >> ");
    scanf("%d",&startB);
    printf("[Length] >> ");
    scanf("%d",&flen);

    for(int i=startB;i<(startB+flen);i++) //to check the requested blocks are empty
    {
        if(fileblocks[i]==0)
            flag++;
    }

    if(flag==flen)    //if the req blocks are empty
    {
        printf("File Name      StartBlock      Length BlocksOccupied\n");
        printf("  %s          %d          %d",fname,startB,flen);
        for(int i=startB;i<(startB+flen);i++)    // making the allocated index = 1
        {
            if(fileblocks[i]==0)
            {
                fileblocks[i]=1;
                printf("%d ",i);
            }
            else
                printf("Seq Block Occupied\n");
        }
        printf("\n");
    }
    else    //if flag != length of the file
    {
        printf("Sequential Blocks are OCCUPIED\n");
    }
}
```

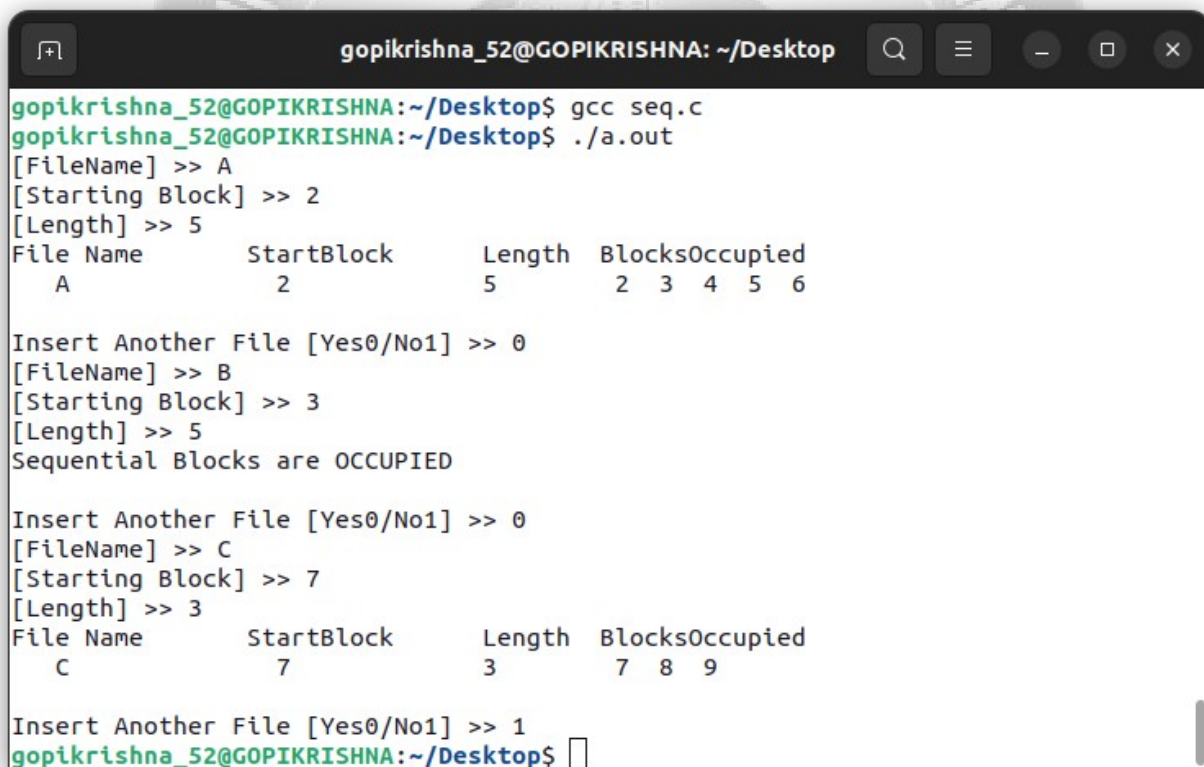
```

    printf("\nInsert Another File [Yes0/No1] >> ");
    scanf("%d",&ch);
    if(ch==0)
        goto new;
    else if(ch==1)
        exit(0);
    else
        printf("Wrong Input\n");
}

void main()
{
    seq();
}

```

OUTPUT



```

gopikrishna_52@GOPIKRISHNA: ~/Desktop
gopikrishna_52@GOPIKRISHNA:~/Desktop$ gcc seq.c
gopikrishna_52@GOPIKRISHNA:~/Desktop$ ./a.out
[FileName] >> A
[Starting Block] >> 2
[Length] >> 5
File Name      StartBlock      Length      BlocksOccupied
   A              2              5           2  3  4  5  6

Insert Another File [Yes0/No1] >> 0
[FileName] >> B
[Starting Block] >> 3
[Length] >> 5
Sequential Blocks are OCCUPIED

Insert Another File [Yes0/No1] >> 0
[FileName] >> C
[Starting Block] >> 7
[Length] >> 3
File Name      StartBlock      Length      BlocksOccupied
   C              7              3           7  8  9

Insert Another File [Yes0/No1] >> 1
gopikrishna_52@GOPIKRISHNA:~/Desktop$

```